

# PATENT COOPERATION TREATY

REC'D 0 4 NOV 1999

WIPO PCT

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		ication of Transmittal of International Examination Report (Form PCT/IPEA/416)	
		Priority date (day/month/year)		
PCT/US98/21807	14 OCTOBER 1998		14 OCTOBER 1997	
International Patent Classification (IPC) of Please See Supplemental Sheet.	or national classification and IP	С		
Applicant ADVANCED CHEMICAL SYSTEMS	INTERNATIONAL, INC.			
Examining Authority and is  2. This REPORT consists of a  This report is also accom	transmitted to the applicant total of <u>U</u> sheets.  panied by ANNEXES, i.e., she	according to	cription, claims and/or drawings which have	
	tion 607 of the Administrative		ng rectifications made before this Authority.  Inder the PCT).	
These annexes consist of a to	otal of <u></u> sheets.	(4 R.)		
3. This report contains indication	ns relating to the following i	tems:		
I Y Basis of the repo		F 5.		
	••	**************************************		
	II Priority			
III X Non-establishmer	nt of report with regard to n	ovelty, invent	tive step or industrial applicability	
IV X Lack of unity of	invention			
	nt under Article 35(2) with regulations supporting such states		y, inventive step or industrial applicability;	
VI Certain documents	cited			
VII Certain defects in t	he international application	· • · • ·		
VIII Certain observation	ns on the international applica	ion .		
		. '		
Qle e Gran				
·····				
Date of submission of the demand	Date	of completion	of this report	
31 MARCH 1999		18 OCTOBER	1999	
Name and mailing address of the IPEA/	1 /	Authorized officer		
Commissioner of Patents and Traden Box PCT Washington, D.C. 20231	narks (,	- CHARLES BOYER / L-/11 (M'Ull		
Facsimile No. (703) 305-3230	Tele	phone No. (	703) 308-0661	





International application No. PCT/US98/21807

I. Basis f	th rep rt		
			sich have been furnished to the receiving Office in response to an invitation
	-	l application as origina	I" and are not annexed to the report since they do not contain amendments):
X			
x	the description,	pages 1-6	· · · · · · · · · · · · · · · · · · ·
			_ , filed with the demand:
			, filed with the letter of
		pages	, filed with the letter of
x	the claims,	Nos. <u>1-26</u>	, as originally filed.
		Nos. NONE	, as amended under Article 19.
		Nos. NONE	, filed with the demand.
		Nos. NONE	, filed with the letter of
		Nos	, filed with the letter of
x	the drawings,	sheets/fig none	, as originally filed.
اك	•	_	, filed with the demand.
		sheets/fig NONE	, filed with the letter of
			, filed with the letter of
X X X 3. Thi to g	the description, the claims, the drawings, is report has been e	osure as filed, as indicated	
			÷





International application No. PCT/US98/21807

IIL N	n-establishment of opinion with regard to novelty, inv	entive step and industrial applicability		
The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:				
	the entire international application.			
x	claims Nos. <u>14-26</u>	and some a		
because:				
	the said international application, or the said claim Nos does not require international preliminary examination	s. relate to the following subject matter which (specify).		
		OR"		
		nsis.		
		3 t ×1, ·		
		фе. :		
	the description, claims or drawings (indicate particular	elements below) or said claims Nosare so unclear		
	that no meaningful opinion could be formed (specify).	$M_{ m c}$		
		de		
	. •			
	the claims, or said claims Nos are so inadequately	supported by the description that no meaningful		
نــا	opinion could be formed.	'en		
x	no international search report has been established for	said claims Nos. <u>14-26</u> .		
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International application No.

PCT/US98/21807

IV.	Lack of unity of invention			
1.	In response to the invitation to restrict or pay addit	tional fees the applicant has:		
	restricted the claims.			
	paid additional fees.			
	paid additional fees under protest.			
	x neither restricted nor paid additional fees.			
	_			
2.	This Authority found that the requirement of unity not to invite the applicant to restrict or pay addition	of invention is not complied with and chose, according to Rule 68.1, nal fees.		
3.	This Authority considers that the requirement of unity of in	nvention in accordance with Rules 13.1, 13.2 and 13.3 is		
	complied with.			
	x not complied with for the following reasons:	R.		
	This application contains the following inventions or group	os of inventions which are not so linked as to form a single		
i		nventions to be examined, the appropriate additional examination		
	Group I, claim(s) 1-13, drawn to a cleaning composition.	id.		
]	Group II, claim(s) 14-26, drawn to a method for fabricating a semiconductor.  The inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Claims 1-13 are unobvious over the prior art, US 3,887,497. Accordingly, the special technical feature linking the two inventions, a cleaning composition, does not provide a contribution over the prior art, and no single inventive concept exists. Therefore, the holding of Lack of Unity of Invention is proper.			
		The Book of		
		Fix. 1		
		o ·		
		::		
4.	Consequently, the following parts of the international ap in establishing this report:	pplication were the subject of international preliminary examination:		
	all parts.			
	the parts relating to claims Nos			
	<u> </u>			





International application No.

PCT/US98/21807

V. Reas ned statement under Article 35(2) with regard t novelty, inventive step or industrial applicability; citati ns and explanati ns supp rting such statement				
1. STATEMENT				
Novelty (N)	Claims	1-13	YES	
	Claims	none	NO	
Inventive Step (IS)	Claims	none	_ YES	
	Claims	1-13	_ NO	
Industrial Applicability (IA)	Claims	1-13	_ YES	
	Claims	none	_ NO	
borate, sodium tetraborate, monoethanolamine does not exemplify a composition containing in the art to incorporate these components in detergent compositions.  Claims 1-13 meet the requirements for novelt claimed composition.	F Article 33(3) mposition (see c, triethanolamic these ingredien a detergent con y under PCT A	as being obvious over Ulvild, US 3,887,497.  abstract). Suitable builders of the invention include ammone, and diglycolamine (col. 3, line 57-col. 4, line 68). Ulvits, however it would have been obvious to one of ordinary imposition as Ulvild teaches these components as suitable in tell.  Article 33(2) as the prior art does not exemplify the present y as defined by PCT Article 33(4) as the presently claimed	ild / skill n his	
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International application No.

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spplemental Box o be used when the space in any of the precedir	ng boxes is not sufficient)		
ontinuation of: Boxes I - VIII			Sheet 10
LASSIFICATION:  The International Patent Classification (IPC)  C(6): and US Cl.: US Cl.: 510/150, 175, 176, 1	and/or the National classifica 78, 212, 345, 460, 465, 486	ation are as listed below: 499: 438/906, 690	
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# From the INTERNATIONAL BUREAU

# **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

To:		·

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

	ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 21 May 1999 (21.05.99)	in its capacity as elected Office
International application No. PCT/US98/21807	Applicant's or agent's file reference 37577-0015 PC
International filing date (day/month/year) 14 October 1998 (14.10.98)	Priority date (day/month/year) 14 October 1997 (14.10.97)
Applicant	1
WOJTCZAK, William, A. et al	

	······································
1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	31 March 1999 (31.03.99)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

C. Cupello

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



# INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/21807

A. CLASSIFICATION OF SUBJECT MATTER  IPC(6) :C11D 3/30, 3/43; G03C 11/12; H01L 21/304, 21/3065					
US CL :	US CL : Please See Extra Sheet.				
According to	o International Patent Classification (IPC) or to both	national classification and IPC			
	DS SEARCHED				
Minimum de	ocumentation searched (classification system follower	d by classification symbols)			
U.S. : 5	510/150, 175, 176, 178, 212, 345, 460, 465, 486, 4	<del>1</del> 99; 438/906, 690			
Documentat	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched		
	lata base consulted during the international search (na APLUS search terms: mea, tea, ammonium borate, n		e, search terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
X,P	US 5,783,538 A (TOTOKI et al) 21 Jul line 48-column 6, line 23.	y 1998 (21-07-98), column 4,	1-7, and 9-13		
Y	US 3,887,497 A (ULVILD) 03 June 1975 (03-06-75), column 4, lines 25-60.				
A	US 5,482,566 A (LEE) 09 January 19	96 (09-01-96).	1-13		
A	US 4,786,578 A (NEISIUS et al) 22 November 1988 (22-11-88). 1-13				
A	US 5,128,057 A (BIXENMAN et al) 07 July 1992 (07-07-92). 1-13				
A,P	US 5,780,406 A (HONDA et al) 14 Ju	uly 1998 (14-07-98).	1-13		
		<i>,</i>			
Purth	ner documents are listed in the continuation of Box C	C. See patent family annex.			
'A' do	enial estagories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"T" later document published after the inte date and not in conflict with the appl the principle or theory underlying the	lication but cited to understand		
	tier document published on or after the international filing date	*X* document of particular relevance; the			
"L" doc	cument which may throw doubts on priority claims(s) or which is ad to establish the publication date of another citation or other	considered novel or cannot be consider when the document is taken alone			
	ecial resson (as specified)	"Y" document of particular relevance; the considered to involve an inventive			
	cument referring to an oral disclosure, use, exhibition or other	eombined with one or more other such being obvious to a person skilled in t	documents, such combination		
*P* document published prior to the international filing date but later than *A.* document member of the same patent family the priority date claimed					
Date of the actual completion of the international search  Date of mailing of the international search report					
10 DECEMBER 1998 14 JAN 1999					
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Authorized officer CHARLES BOYER  LIMINATION OF THE PROPERTY OF					
Facsimile N		Telephone No. (703) 308-0661			

# INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/21807

A. CLASSIFICATION OF SUBJECT MATTER: US CL:	-			
510/150, 175, 176, 178, 212, 345, 460, 465, 486, 499; 438/906, 690				
	-			
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Form PCT/ISA/210 (extra sheet)(July 1992)\*